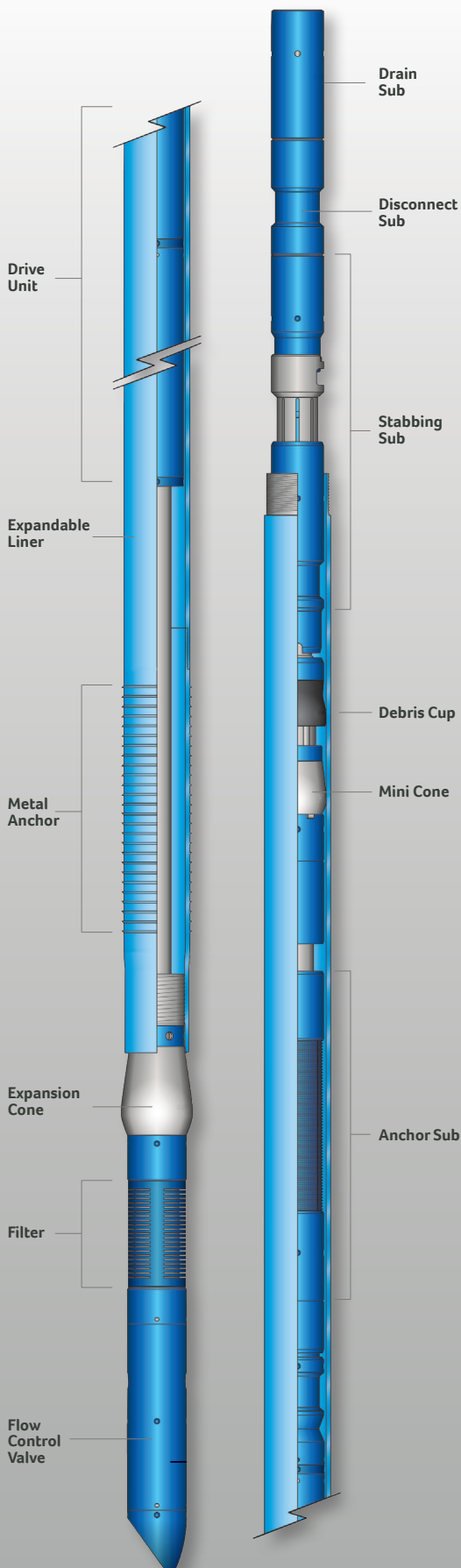


# Inner Core – ReLine MNS



Our flagship ReLine MNS system provides a single trip isolation solution with significant added value of no shoe milling, enabling the relining and isolation of various casing integrity concerns.

Once installed the ReLine MNS provides minimal loss of inner diameter (ID), whilst providing high burst and collapse ratings.

The MNS cased hole system is designed for deployment primarily on jointed pipe but can be adapted in certain applications to be deployed on coil tubing, providing the ability to cover both long and short intervals

## FEATURES

- Single trip and shoeless
- Extensive size range
- Hydro mechanical bottoms-up expansion
- High pressure burst & collapse ratings
- High performance material & elastomer options
- Long length isolation achieved via proprietary e2m expandable connection
- Flow activated valve to allow for pressurizing system
- Shoeless design
- Metal to metal sealing capabilities
- Minimized/slim OD to drift restrictions
- Exotic/corrosion resistant alloys availability

## BENEFITS

- No shoe milling requirement
- Extensive size range
- Single trip, long length isolation
- Selective placement of premium elastomers for zonal isolation
- Optimised post expansion ID allows for maximized reserve recovery & future intervention
- Running tool design enables flexibility in liner length

## APPLICATIONS

- Isolation of unwanted water & gas
- Isolation of sand screens to negate sand ingress
- Corrosion isolation
- Isolation of casing & tubular leaks
- Isolation of leaking or compromised completions components:
  - SSD (Sliding Side Door)
  - ICV (Inflow Control Valve)
  - ICD (Inflow Control Device)
  - GLV (Gas Lift Valve)
  - CIV (Chemical Injection Valve)
- Velocity string
- Refrac/recompletion
- Parted casing
- Leaking liner hanger
- Zonal isolation

## CORE PRODUCT SYNERGIES (CPS)

- ADS (Activated Drilling Scraper)
- Origin WBCU portfolio



# SPECIFICATIONS

Parent Casing				Pre-Expanded Running Specifications				Expanded Geometry				Expanded Performance			
OD [in]	Weight [lb/ft]	Wall Thickness [in]	ID [in]	Nominal Drift [in]	OD [in]	Maximum RIH OD [in]	Wall Thickness [in]	DLS Limit ["/100]	OD [in]	Nominal Drift [in]	Special Drift [in]	Expansion Ratio [%]	Internal Yield Pressure [psi]	Collapse Pressure [psi]	Material Grade
9.875	62.8	0.625	8.625	8.469	7.625	7.925	0.375	18.5	8.454	7.675	7.675	12.5	6.277	2,910	MTX-60
9.625	53.5	0.545	8.535	8.379	7.625	7.925	0.430	18.5	8.363	7.476	7.476	11.4	7.232	4,170	MTX-60
9.625	47.0	0.472	8.681	8.525	7.625	7.925	0.430	18.5	8.521	7.640	7.640	13.8	7.192	3,930	MTX-60
9.625	43.5	0.435	8.755	8.599	7.625	7.925	0.430	18.5	8.600	7.723	7.723	15.1	7.171	3,810	MTX-60
9.625	40.0	0.395	8.835	8.679	7.625	7.925	0.430	18.5	8.686	7.873	7.873	16.4	7.149	3,690	MTX-60
9.625	36.0	0.352	8.921	8.765	7.625	7.925	0.430	18.5	8.779	7.970	7.970	17.8	7.124	3,560	MTX-60
9.625	53.5	0.545	8.535	8.379	7.625	7.925	0.375	18.5	8.358	7.635	7.635	11.1	6.299	3,040	MTX-60
9.625	47.0	0.472	8.681	8.525	7.625	7.925	0.375	18.5	8.514	7.797	7.797	13.4	6.263	2,840	MTX-60
9.625	43.5	0.435	8.755	8.599	7.625	7.925	0.375	18.5	8.593	7.879	7.879	14.6	6.245	2,730	MTX-60
9.625	40.0	0.395	8.835	8.679	7.625	7.925	0.375	18.5	8.678	7.968	7.968	15.9	6.225	2,630	MTX-60
9.625	36.0	0.352	8.921	8.765	7.625	7.925	0.375	18.5	8.770	8.064	8.064	17.3	6.203	2,550	MTX-60
8.625	63.5	0.750	7.125	6.969	6.000	6.380	0.324	23.5	6.919	6.310	6.250	17.9	6.814	3,190	MTX-60
7.625	55.3	0.750	6.125	6.000	5.500	5.860	0.304	25.7	5.890	5.299	5.239	8.3	7.134	4,300	MTX-60
7.625	51.2	0.687	6.251	6.126	5.500	5.860	0.304	25.7	6.028	5.443	5.383	11.3	7.088	4,000	MTX-60
7.625	47.1	0.625	6.375	6.250	5.500	5.860	0.304	25.7	6.164	5.585	5.525	14.2	7.041	3,720	MTX-60
7.625	39.0	0.500	6.625	6.500	6.000	6.380	0.324	23.5	6.372	5.740	5.680	7.2	6.984	4,200	MTX-60
7.625	33.7	0.430	6.765	6.640	6.000	6.380	0.324	23.5	6.525	5.900	5.840	10.2	6.939	3,900	MTX-60
7.625	29.7	0.375	6.875	6.750	6.000	6.380	0.324	23.5	6.646	6.025	5.965	12.6	6.901	3,670	MTX-60
7.625	26.4	0.328	6.969	6.844	6.000	6.380	0.324	23.5	6.749	6.132	6.072	14.6	6.869	3,480	MTX-60
7.000	38.0	0.540	5.920	5.795	5.500	5.800	0.361	25.7	5.718	5.008	4.948	4.8	8.545	6,450	MTX-60
7.000	35.0	0.498	6.004	5.879	5.500	5.800	0.361	25.7	5.811	5.105	5.045	6.9	8.514	6,190	MTX-60
7.000	32.0	0.453	6.094	5.969	5.500	5.800	0.361	25.7	5.910	5.210	5.150	9.0	8.478	5,930	MTX-60
7.000	29.0	0.408	6.184	6.059	5.500	5.800	0.361	25.7	6.009	5.314	5.254	11.2	8.442	5,680	MTX-60
7.000	26.0	0.362	6.276	6.151	5.500	5.800	0.361	25.7	6.111	5.421	5.361	13.5	8.403	5,420	MTX-60
7.000	23.0	0.317	6.366	6.241	5.500	5.800	0.361	25.7	6.207	5.522	5.462	15.6	8.365	5,190	MTX-60
7.000	20.0	0.272	6.456	6.331	5.500	5.800	0.361	25.7	6.309	5.630	5.570	17.8	8.323	4,950	MTX-60
7.000	38.0	0.540	5.920	5.795	5.500	5.800	0.304	25.7	5.716	5.117	5.057	4.6	7.190	4,690	MTX-60
7.000	35.0	0.498	6.004	5.879	5.500	5.800	0.304	25.7	5.807	5.212	5.152	6.5	7.161	4,480	MTX-60
7.000	32.0	0.453	6.094	5.969	5.500	5.800	0.304	25.7	5.905	5.315	5.255	8.6	7.129	4,260	MTX-60
7.000	29.0	0.408	6.184	6.059	5.500	5.800	0.304	25.7	6.003	5.417	5.357	10.7	7.096	4,050	MTX-60

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# SPECIFICATIONS

Parent Casing				Pre-Expanded Running Specifications					Expanded Geometry					Expanded Performance		
OD [in]	Weight [lb/ft]	Wall Thickness [in]	ID [in]	Nominal Drift [in]	OD [in]	Maximum RIH OD [in]	Wall Thickness [in]	DLS Limit [°/100]	OD [in]	Nominal Drift [in]	Special Drift [in]	Expansion Ratio [%]	Internal Yield Pressure [psi]	Collapse Pressure [psi]	Material Grade	
7.000	26.0	0.362	6.276	6.151	5.500	5.800	0.304	25.7	6.103	5.521	5.461	12.9	7.062	3.840	MTX-60	
7.000	23.0	0.317	6.366	6.241	5.500	5.800	0.304	25.7	6.198	5.620	5.560	14.9	7.029	3.650	MTX-60	
7.000	20.0	0.272	6.456	6.331	5.500	5.800	0.304	25.7	6.299	5.726	5.666	17.0	6.992	3.460	MTX-60	
6.625	24.0	0.352	5.921	5.796	5.500	5.800	0.304	25.7	5.717	5.118	5.058	4.6	7.190	4.690	MTX-60	
5.500	26.0	0.476	4.548	4.423	4.250	4.490	0.310	30.9	4.422	3.812	3.752	5.0	9.502	7.680	MTX-60	
5.500	23.0	0.415	4.670	4.545	4.250	4.490	0.310	30.9	4.557	3.956	3.896	9.0	9.438	7.150	MTX-60	
5.500	20.0	0.361	4.778	4.653	4.250	4.490	0.310	30.9	4.678	4.084	4.024	12.5	9.377	6.700	MTX-60	
5.500	17.0	0.304	4.892	4.767	4.250	4.490	0.310	30.9	4.805	4.218	4.158	16.2	9.309	6.250	MTX-60	
5.500	15.5	0.275	4.950	4.825	4.250	4.490	0.310	30.9	4.869	4.287	4.227	18.1	9.272	6.040	MTX-60	
5.500	14.0	0.244	5.012	4.887	4.250	4.490	0.310	30.9	4.939	4.360	4.300	20.1	9.232	5.810	MTX-60	
5.500	12.8	0.228	5.044	4.919	4.250	4.490	0.310	30.9	4.974	4.398	4.338	21.2	9.211	5.690	MTX-60	
5.500	26.0	0.476	4.548	4.423	4.250	4.490	0.250	30.9	4.419	3.926	3.866	4.7	7.653	5.290	MTX-60	
5.500	23.0	0.415	4.670	4.545	4.250	4.490	0.250	30.9	4.552	4.066	4.006	8.4	7.596	4.870	MTX-60	
5.500	20.0	0.361	4.778	4.653	4.250	4.490	0.250	30.9	4.670	4.190	4.130	11.7	7.543	4.520	MTX-60	
5.500	17.0	0.304	4.892	4.767	4.250	4.490	0.250	30.9	4.795	4.321	4.261	15.2	7.484	4.170	MTX-60	
5.500	15.5	0.275	4.950	4.825	4.250	4.490	0.250	30.9	4.859	4.387	4.327	17.0	7.453	4.000	MTX-60	
5.500	14.0	0.244	5.012	4.887	4.250	4.590	0.250	30.9	4.872	4.401	4.341	17.4	7.446	3.960	MTX-60	
5.500	13.0	0.228	5.044	4.919	4.250	4.490	0.250	30.9	4.962	4.495	4.435	19.9	7.402	3.730	MTX-60	
5.000	26.7	0.562	3.876	3.751	3.500	3.740	0.254	37.5	3.761	3.269	3.209	9.2	9.385	7.050	MTX-60	
5.000	24.2	0.500	4.000	3.875	3.500	3.740	0.254	37.5	3.900	3.416	3.356	14.2	9.298	6.440	MTX-60	
5.000	23.2	0.478	4.044	3.919	3.500	3.740	0.254	37.5	3.950	3.469	3.409	15.9	9.265	6.230	MTX-60	
5.000	21.4	0.437	4.126	4.001	3.500	3.740	0.254	37.5	4.042	3.567	3.507	19.2	9.202	5.850	MTX-60	
5.000	20.8	0.422	4.156	4.031	3.500	3.740	0.254	37.5	4.076	3.602	3.542	20.4	9.178	5.720	MTX-60	
5.000	18.0	0.362	4.276	4.151	3.875	4.115	0.254	33.9	4.160	3.667	3.607	8.9	8.469	5.930	MTX-60	
4.500	15.1	0.337	3.826	3.701	3.500	3.740	0.254	37.5	3.705	3.209	3.149	7.3	9.418	7.310	MTX-60	
4.500	13.5	0.290	3.920	3.795	3.500	3.740	0.254	37.5	3.810	3.321	3.261	11.0	9.355	6.830	MTX-60	
4.500	12.6	0.271	3.958	3.833	3.500	3.740	0.254	37.5	3.853	3.366	3.306	12.5	9.328	6.640	MTX-60	
4.500	11.6	0.250	4.000	3.875	3.500	3.740	0.254	37.5	3.900	3.416	3.356	14.2	9.298	6.440	MTX-60	
4.500	10.5	0.224	4.052	3.927	3.500	3.740	0.254	37.5	3.959	3.478	3.418	16.3	9.259	6.190	MTX-60	
4.500	9.5	0.205	4.090	3.965	3.500	3.740	0.254	37.5	4.002	3.524	3.464	17.8	9.230	6.020	MTX-60	

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